Installation Instructions

LED Daytime Running Lights (LED-DRL)

OUTBACK

(2013➔)

Part-no.:

SENOAJ3001

SUBARU

- **This kit includes the dedicated bezels.**
- **Before beginning work, check the kit content.**
- **The greatest care should be taken when carrying out work in order to avoid damages!**

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SUBARU

LIST OF PARTS:

Pos.	Description	Quanity	SUBARU
1	LED-stick	2	SENOAJ3030
2	Bezel left	1	SENOAJ3011
3	Bezel right	1	SENOAJ3021
4	metal-clamp-frame left	1	SENOAJ3071
5	metal-clamp-frame right	1	SENOAJ3081
6	Driver	1	SENOSC3040
7	Connection cable-DRL (2100mm)	1	-
8	Connection cable-DRL (900mm)	1	-
9	Power cable-DRL	1	-
10	instruction	1	-
11	Cable tie	12	-
12	TÜV certificate included sticker	1	-
13	double sided adhesive sticker	1	-
14	3M Adhesion Promotor 4298	1	-
15	3M Surface Cleaner	1	-
16	Hexagonal screws M6x16	4	-
17	self-locking-nut (DIN9021) M6	4	-
18	washer 6,4 x 10	8	-
19	thread bolt M6 x 16	4	-
20	spring ring M6	4	-
21	plastic washer M6	4	-

INFORMATION

The type approval of the vehicle will not expire due to the modification.

PRECAUTIONS

- Secure all wires with cable ties and where touching sharp edges apply extra protection on sleves if necessary.
- Be sure to tighten nuts and bolts with specified torque shown in service manual.
- The illustration in the installation procedures mainly depict the installation of the left side part. Install the right side part in the same manner.

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- Disconnect the ground terminal of the battery.

ATTENTION:
Record the contents of the memory before disconnecting the ground terminal of the battery to allow you to reprogram the radio presets after the installation is completed.

- Every step of mounting applies to the driver and passenger side !

Cutout :

- Remove the front-bumber following the instructions in the SUBARU service manual .

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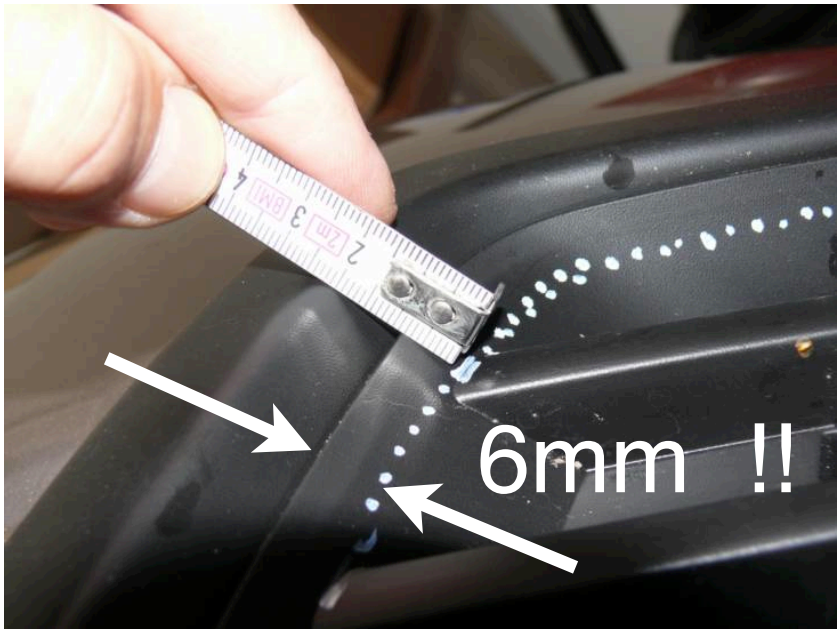
- As shown below, mark the cut out with a white marker.



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- Carefully make the cut-out along the dotted line with a padsaw or jig saw.

- Check if the bezel fits without too much effort.

- After correct fitment of the bezel, remove the cutting burr using a file.

- Remove the splash guard in the left wheel-housing.

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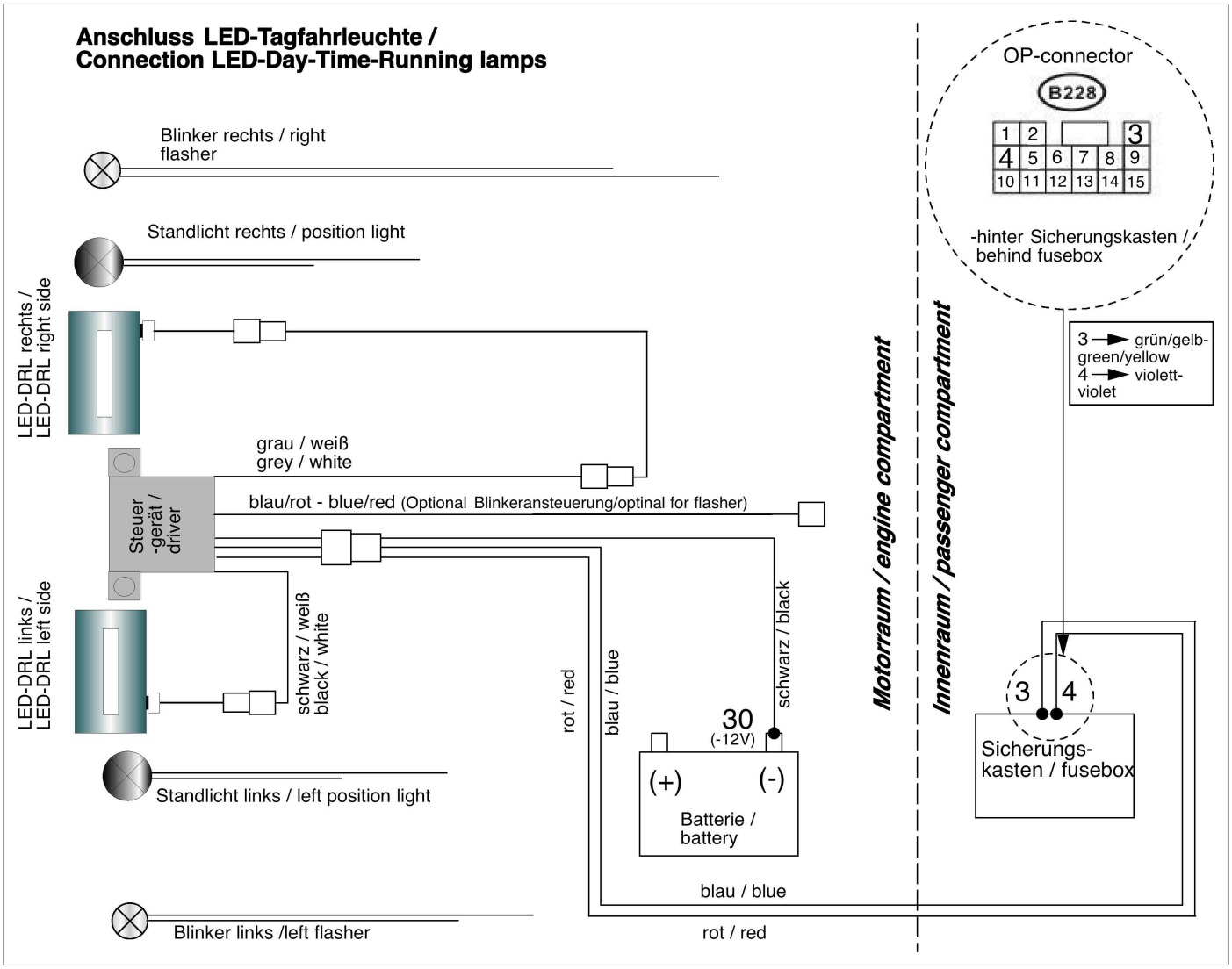

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Electrical connections:

- Please use the electrical diagram on page 7 to make the electrical connections.

- Driver needs to be fixed to the outer wall of the left fender in the engine compartment, following instructions on next page.

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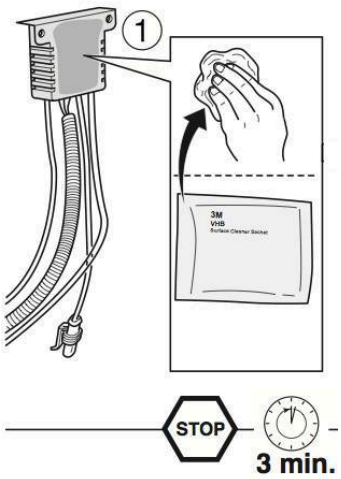
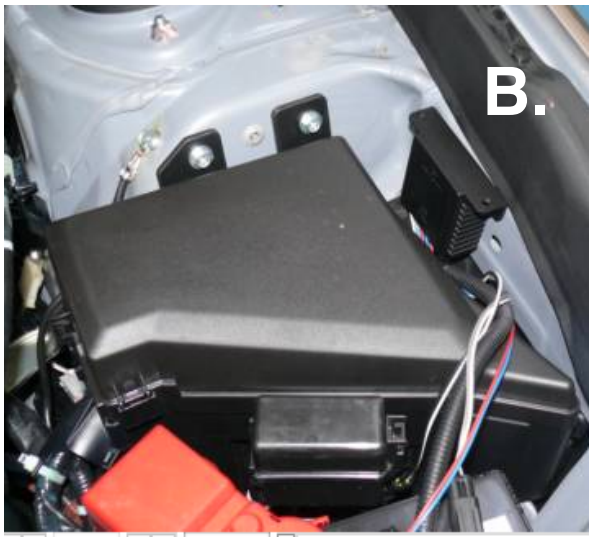
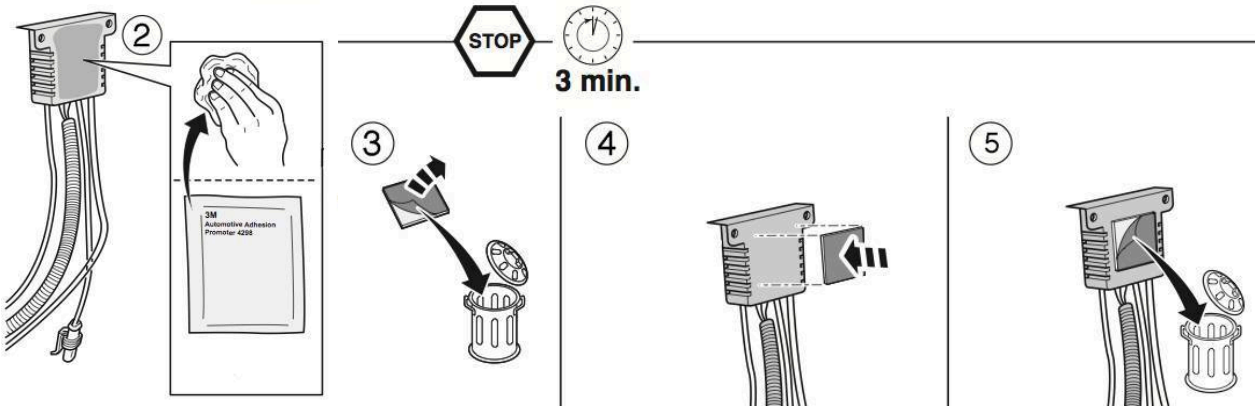
ATTENTION!

- You have to clean the fixation surface with the included „ **3M Surface Cleaner** “ pad so that it is free of silicon or grease.(Pic A/B)
- After drying time of 3 minutes apply the included„ **3M Adhesion Promotor 4298** “.(pic A/B) .
- After drying time of 3 minutes stick the double sided adhesive sticker together with the driver .(pic A)
- Peel off the grey backing strip of the double-sided adhesive sticker at the back of the driver and tape it to the outer wall of the left fender. (Make sure the wires point downwards)

A.







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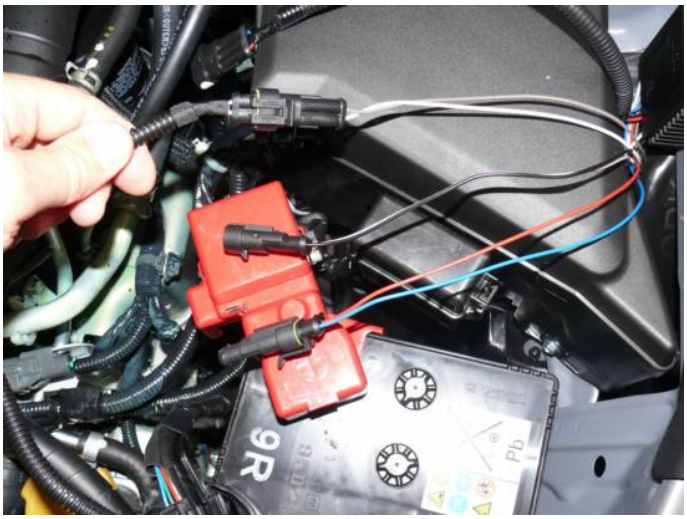
SUBARU



- Connect the two-core cable **„connection-cable DRL“** to the two-core cable „driver“

Attention!

- Connect the longer one **„cable A“** to the white/grey cable of the driver.
- The short one **„cable B“** has to be connected with the white/black cable of the driver.

- Route **„cable A“** to the area under the right headlamp.
- Route **„cable B“** to the area under the left headlamp.

CAUTION !
AVOID THE HARNESS TO BE DAMAGED BY SHARP EDGES, MOVING PARTS ETC.
TIE IT DOWN ACCORDINGLY !

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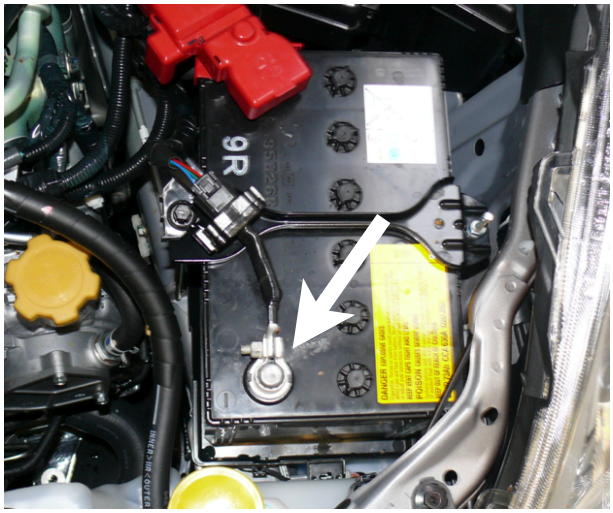
SUBARU

- Connect the three core cable **„power cable -DRL“** to the three core cable of the driver.

- Connect the black cable (with a ring connector) with the **battery ground connection** !



- Route the red and blue cable of the „power cable-DRL“ into the passenger compartment parallel through the left wheel housing.

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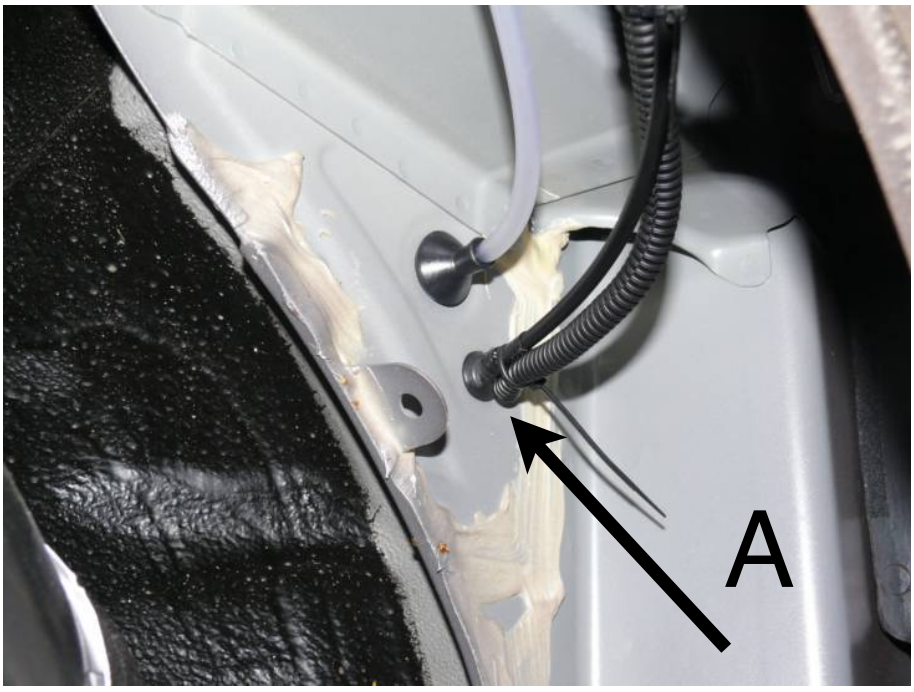
SUBARU

- In the left wheel housing route the red and blue cable through the rubber grommet (A) into the passenger room.
  (use a stiff wire for example a welding -wire)

CAUTION !

AVOID THE HARNESS TO BE DAMAGED BY SHARP EDGES, MOVING PARTS ETC.TIE IT DOWN ACCORDINGLY !



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LED Daytime Running Lights (LED-DRL)

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SUBARU

- Remove the panel below the steering wheel and the cover of the fuse box .

- Find the 15-PIN white OP-connector „**B228**“ behind the fusebox.

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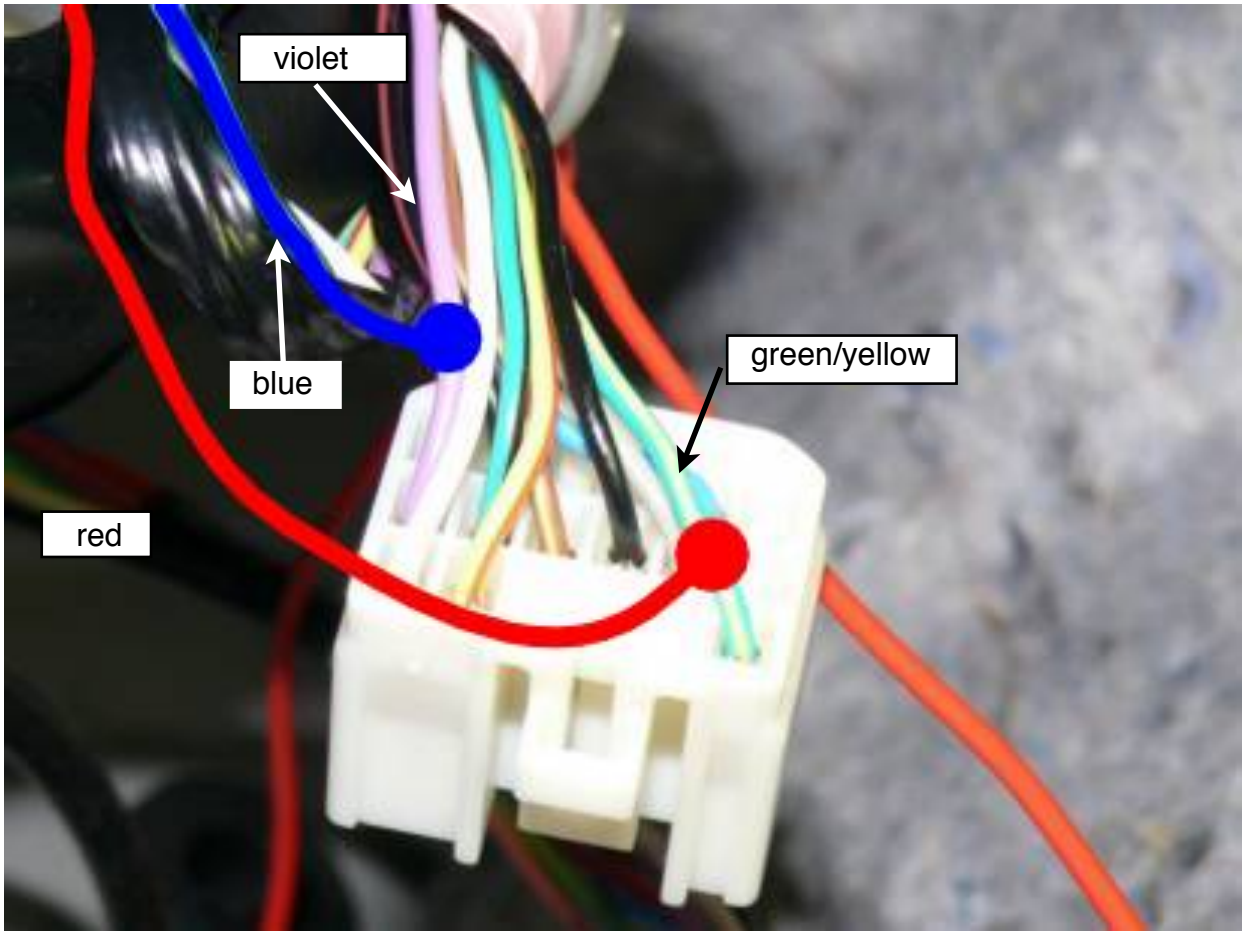
SUBARU



- Connect the red wire to the green/yellow cable of the 15-PIN white connector „**B228“(plug B228 PIN3)** by soldering and afterwards isolate the connection carefully with isolating tape.
- Connect the blue wire with the violet cable of the 15-PIN white connector „**B228“(plug B228 PIN4)** by soldering and afterwards isolate the connection carefully with isolating tape.**(pic17)**

CAUTION !

AVOID THE HARNESS TO BE DAMAGED BY SHARP EDGES, MOVING PARTS ETC.
TIE IT DOWN ACCORDINGLY !

Installation Instructions

LED Daytime Running Lights (LED-DRL)

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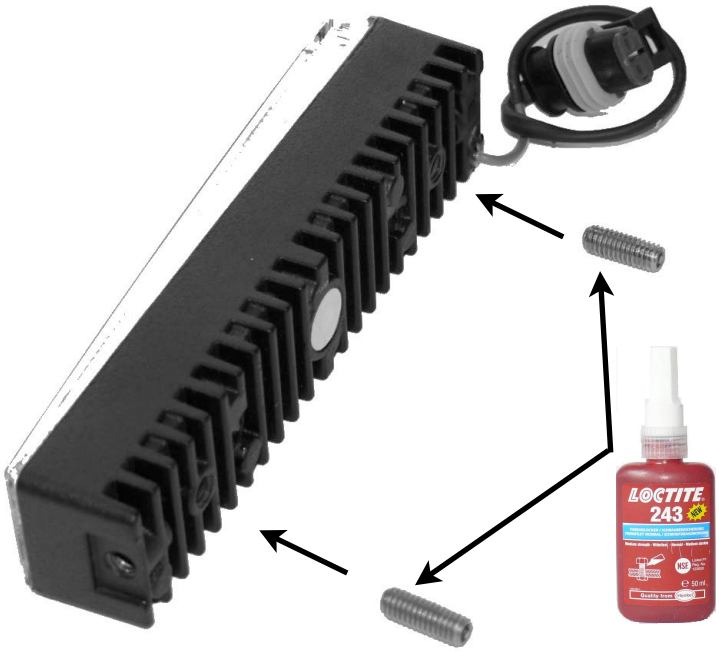
SUBARU

Installation LED-DRL units

- Apply threadlocking substance (For example LOCTITE 243) to the thread and bolt them into the LED-DRL unit.



- Put the LED-DRL into the bezels.

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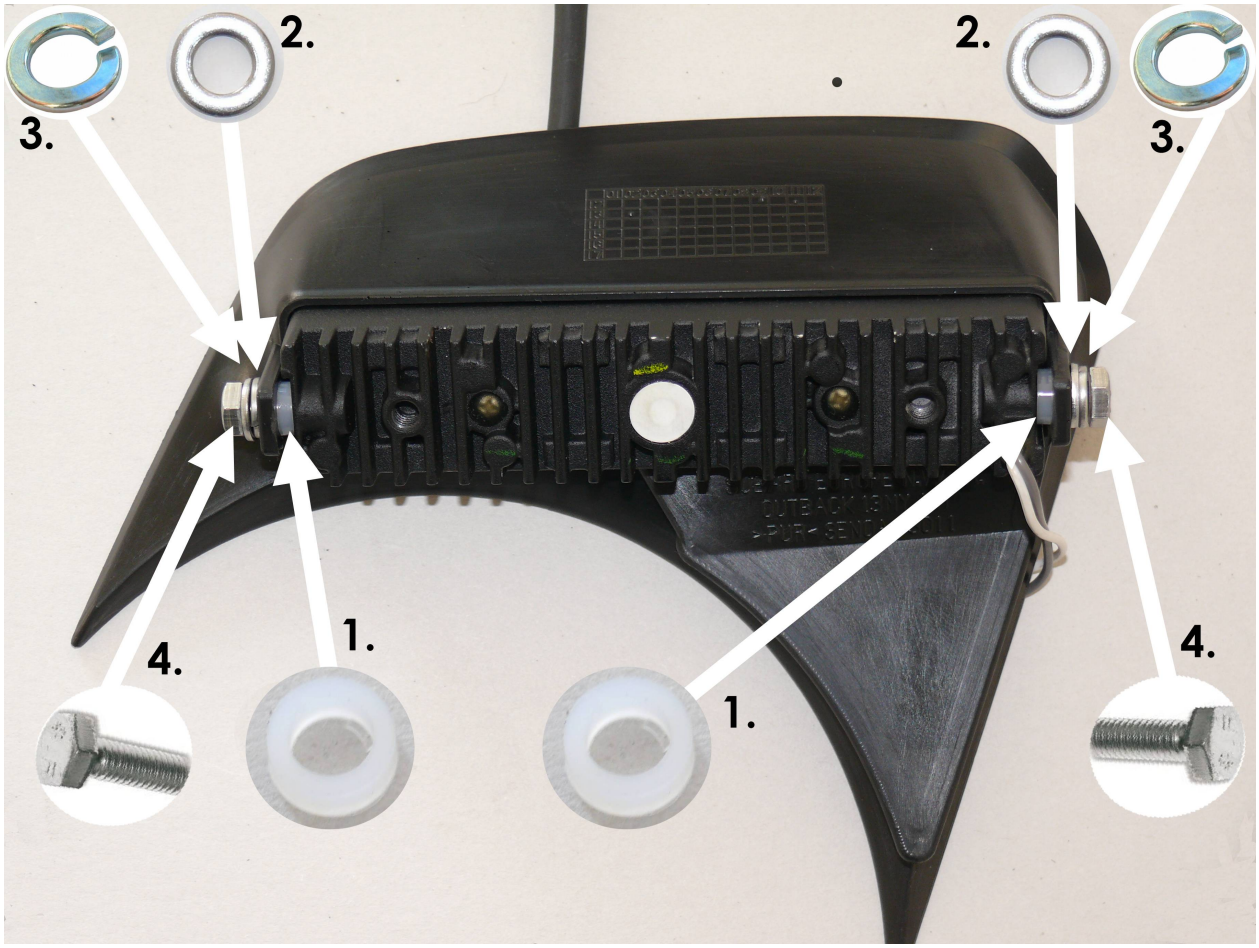
SUBARU

- Before fixing the LED-DRL with the bezels, put between LED-DRL and bezels on each side of the LED-DRL unit one plastic washer **(1.)** .

- Fix the LED-units to the bezels by means of the washer **(2.)** spring ring **(3.)** and hexagonal screws **(4.)** with **1,5Nm !**



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LED Daytime Running Lights (LED-DRL)

OUTBACK
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SUBARU

- Put the bezels with the LED-DRL units into the bumper.

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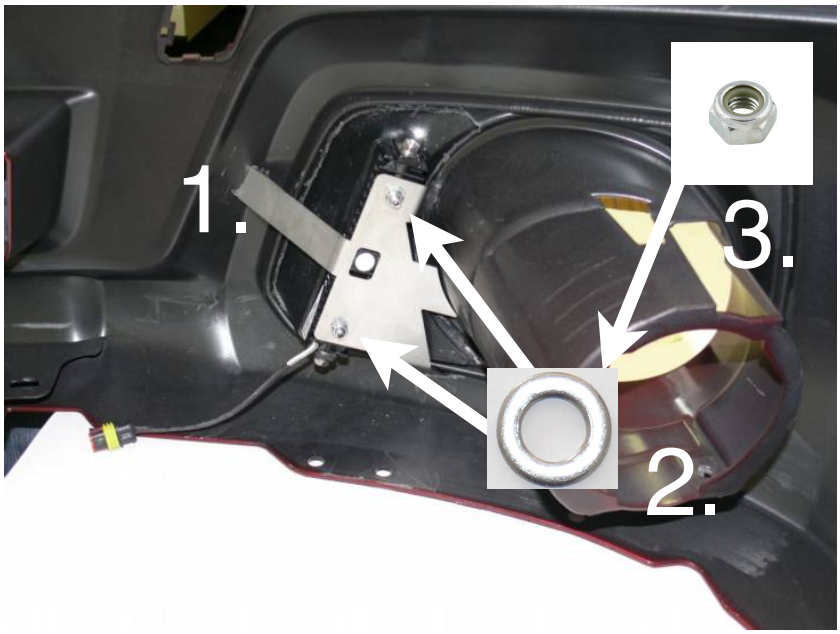
SUBARU

- Behind the bumper fix each LED-UNIT/bezel with the metal-clamp-frame, the washers (M6) and the self-locking-nuts (M6) to get the best fit.



ATTENTION: Please notice there is a dedicated metal-clamp-frame for the right and left side!

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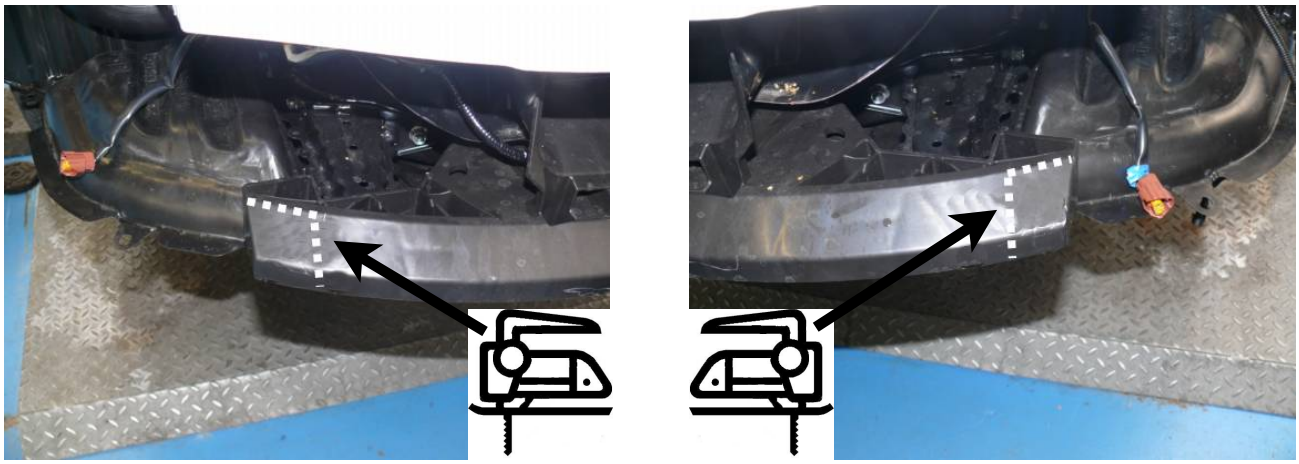
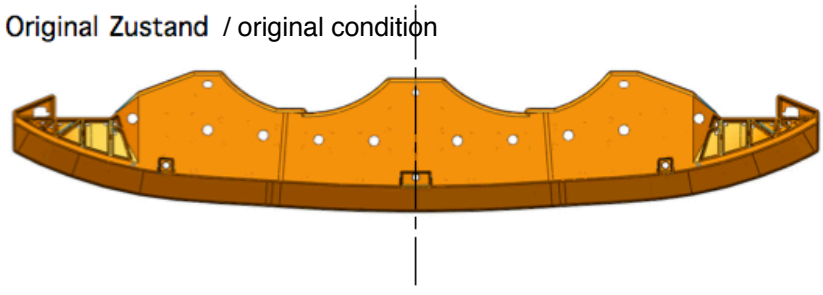
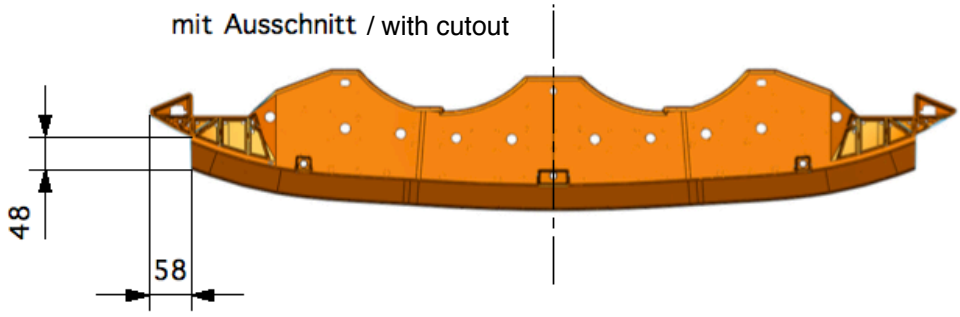
- Please make the cut-out in the plastic beam the dotted lines as shown in below pictures.(padsaw / jig saw) .







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SUBARU

- Connect the two core-cable of the LED-units to the „**connection-cable DRL**“ at the car.

- Install the bumper following the instructions in the SUBARU service manual.

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ATTENTION !

To meet ECE R48 regulations the **position light-function** of the LED-DRL units has to be **deactivated** !

Please follow the steps below:

Programming mode for Position light ON/OFF

1) Ignition ON (the parking brake must be deactivated!)

2) Within **10 seconds**, start switching the position light of the car **ON** and **OFF** 4 times and stop with Position light **OFF** at fourth time.

3) Wait until LED-DRL flashes twice, then repeat 2)

4) Wait until LED-DRL flashes to show the actual mode like mentioned below

This procedure changes the Position light mode from ON and OFF (OFF and ON).
For confirmation the DRL will flash at the end of the procedure (after step 4) like this:

DRL flashes twice -> Position-light-function (PO) OFF
DRL flashes four times -> Position-light-function (PO) ON

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Operation check:

- If you turn on ACC ignition, the DRL has to turn ON !
- In addition if you turn on the main headlamps, the DRL must turn off.

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ATTENTION :

Fogging of the headlight lenses

Modern headlamps are ventilated to avoid corrosion.

This means that at certain weather conditions, condensation collects inside of the lens. This should disappear shortly after the the LED-DRL are turned on.

Fogging of the lens is no reason for a complaint !

It´s not allowed to use high-pressure cleaner to clean the LED-DRL!